



## End of the EDS/HP chapter

Questions?

... and now for a totally different topic

# The details

Compatibility policy

multiple incompatible formats

LaTeX 2.09 near the end of its life span

- with different preloaded fonts
- with different localizations
- with or without NFSS
- ...

LaTeX2e to bring it all back together

1994 - 1996 (getting stable)

- lots of activities
- 6 months release cycles

1997 - 2014 (getting stable)

- fixes no longer applied to the kernel
- fixtx2e introduced
- kernel / kernel + fixtx2e starts generating issues

2015 - ...

introducing a roll back / roll forward concept

First, it is slightly cheaper; and second, it has the words "Don't Panic" in large friendly letters inscribed on its cover.

Do you have your traveler's towel ready?

- 1-col fig can come before earlier 2-col fig
- Wrong header for two columns
- No hyphenation in first word after float environment
- \@ discards spaces when moving
- \addpenalty ruins flush-bottom
- \fnsymbol should use text symbols if possible
- Check the optional arguments of floats

fixes

incorporated all fixtx2e changes into the kernel

- Allowing \emph to produce small caps, etc
- \textsubscript not defined in latex.ltx
- \DeclareMathSizes only take points
- Fewer fragile commands

enhancements / additions

it's only taken from 1999 to decide we might use the extended registers

supporting e-TeX 'out of the box'

Allocators for additional register types

Set codes for full Unicode range

Unicode font encodings assumed for these engines

fundamental support for XeTeX and LuaTeX added

we run and pass against e-TeX and XeTeX (with engine specific base results where needed)

but with LuaTeX we still fail over 100 (difficulties in normalizing logs mostly, although some may be LuaTeX bugs or real differences: to be determined)

regression test suite running against all formats

fair number if LuaTeX bugs found this way

Changes to the 2015 kernel

Roll back - roll forward

Fixes and/or enhancements are implemented directly in the kernel

majority will be transparent to the user

\usepackage[2015/01/01]{latexrelease} in a document emulates the kernel of that specific release date.

freeze the kernel version for important documents

process old documents that need recompiling but don't work for some reason

\IncludeInRelease allows packages to adjust their code to specific kernel releases

helpful if there are any kernel interface changes that are used by a package

Blunder control

enhancements / extensions / long-term bug fixes = release date change via latexrelease

oops = patch to existing release

latexrelease will always patch the kernel back to the latest patch level of a major release

consequence